System, Method, and Program Product for Extracting a

5

Multiresolution Quadrilateral-Based Subdivision Surface

Representation from an Arbitrary Two-Manifold Polygon

Mesh

ABSTRACT

10

Disclosed is an improved computer system, method, and program product that has one or more input devices for receiving one or more input meshes representing a three dimensional model. The three dimensional model is capable of being represented as a 2-manifold triangular mesh. A conversion

15 process automatically converts the input mesh to a multiresolution quadrilateral-based subdivision surface (MQSS) representation.